

01-25-01

JAN 23 2001

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/220, TEGH GENTER 1600/2900

(first 5 pages shown)

INPUT SET

DATE: 01/19/2001 TIME: 22:03:40

1	SEQUENCE LISTING
2	(1) GENERAL INFORMATION:
3	(1) GENERAL INFORMATION:
4	(i) APPLICANT: JOHNSON, EUGENE M
5 6	MILBRANDT, JEFFREY D
7	KOTZBAUER, PAUL T
8	LAMPE, PATRICIA A
9	KLEIN, ROBERT
10	DESAUVAGE, FRED
11	DESKOVAGE, INDD
12	(ii) TITLE OF INVENTION: PERSEPHIN AND RELATED GROWTH FACTOR
13	(II) IIIDE OF INVENTION. PERDETHIN AND RELATED CROWN PROTOR
14	(iii) NUMBER OF SEQUENCES: 242
15	(111) NOTIDER OF BEGODINGS. 242
16	(iv) CORRESPONDENCE ADDRESS:
17	(A) ADDRESSEE: HOWELL & HAFERKAMP, L.C.
18	(B) STREET: 7733 FORSYTH BOULEVARD, SUITE 1400
19	(C) CITY: ST. LOUIS
20	(D) STATE: MO
21	(E) COUNTRY: USA
22	(F) ZIP: 63105
23	(1) 2211 00200
24	(v) COMPUTER READABLE FORM:
25	(A) MEDIUM TYPE: Floppy disk
26	(B) COMPUTER: IBM PC compatible
27	(C) OPERATING SYSTEM: PC-DOS/MS-DOS
28	(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
29	
30	(vi) CURRENT APPLICATION DATA:
31	(A) APPLICATION NUMBER: US/09/220,617
32	(B) FILING DATE: 24 Dec. 1998
33	(C) CLASSIFICATION:
34	
35	(viii) ATTORNEY/AGENT INFORMATION:
36	(A) NAME: GENDLOFF, ELIE H.
37	(B) REGISTRATION NUMBER: 44,704
38	(C) REFERENCE/DOCKET NUMBER: 6029-7976
39	
40	(ix) TELECOMMUNICATION INFORMATION:
41	(A) TELEPHONE: 314-727-5188
42	(B) TELEFAX: 314-727-6092
43	
44	
45	(2) INFORMATION FOR SEQ ID NO:1:
46	
47	(i) SEQUENCE CHARACTERISTICS:
48	(A) LENGTH: 102 amino acids
49	(B) TYPE: amino acid
50	(C) STRANDEDNESS:

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51 52			(1) TC	POL	OGY:	line	ar			•						
53	(ii) MOLECULE TYPE: protein																
54 55																	
56																	
57		(xi) SEÇ	UENC	E DE	SCRI	PTIC	N: S	EQ]	D NC	0:1:						
58 59		Ala	a Aro	Leu	G) v	r Δla	Δνα	Dro	Care				~1	_			_
60		1		, <u>-</u>		5	. Alg	FIO	, cys	, GI	/ Leu 10	l Arg	GIU	Lei	ı Glu	ı Va 15	l Arg
61 62		Va 1	l Ser	- G311	Τ.Φ11	Clv		<i>α</i> 1				_					
63		• • • • • • • • • • • • • • • • • • • •	. 501	GIU	20	GLY	ьeu	. Сту	туг	25	ser	Asp	Glu	Thi	: Val 30	Le	u Phe
64 65								٠							30		
66													-		•		
67		Arg	Tyr	Cys	Ala	Gly	Ala	Cys	Glu	Ala	Ala	Ala	Arg	Val	Tyr	Ası	. Leu
68 69				35					40				_	45	•		
70		Gly	Leu	Arg	Arg	Leu	Arg	Gln	Arg	Arg	Arg	Leu	Arq	Ara	Glu	Arc	y Val
71 72			50					55			_		60			3	,
73	•	Arg	Ala	Gln	Pro	Cys	Cys	Arg	Pro	Thr	Ala	Tvr	Glu	Asn	Glu	Va l	Ser
74 75		65					70	•				75			OLU	Val	80
76		Phe	Leu	Asp	Ala	His	Ser	Arq	Tvr	His	Thr	Val	Hie	G111	T.011	801	Ala
77 78						85		J	-		90			014	Deu	95	Ala
79		Arg	Glu	Cys	Ala	Cvs	Val										
80 81				_	100												
82	(2)	INFO	RMATI	ON F	OR S	SEO I	D NO):2:									
83																	
84 85		(1)	SEQU	ENCE LEN	СНА Стн	RACT	ERIS	TICS	: 			•					
86			(B)	TYP	E: a	mino	aci	d a	CIUS	•							
87 - 88				STR. TOP													
89			(1)	TOP	OLIOG	1.: 1	ınea	r									
90 91		(ii)	MOLE	CULE	TYP	E: p	rote	in									
92																	
93		, ,,															
94 95		(xi)	SEQUI	ENCE	DES	CRIP'	rion	: SE	Q ID	NO:	2:						
96		Pro	Gly A	Ala A	arg i	Pro (Cys (Gly I	Leu 1	Arg (Glu 1	Leu (Glu '	Val	Ara	val	Ser
97 98		1			!	5	-	•			10	'				15	261
99		Glu :	Leu (3ly I	eu (Gly T	Cyr 7	Chr s	Ser 2	Asp (Glu 9	Thr t	י ובז	الھ.'	Dho	7 w-	(The seco
100				- 2	0	- 4			:	25	Jau 1	rait ,	ar 1		one . 30	ΑI.Ġ	ıyr

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101																	
102		Cys	Ala	Gly	Ala	Cys	Glu	Ala	Ala	Ile	Ara	Tle	Tvr	Asn	T.011	Glar	Lon
103				35					40		5		-1-	45	LCu	GLY	Deu
104														13			
105		Arg	Arg	Leu	Arq	Gln	Ara	Ara	Δrσ	Va 1	λνα	λνα	C1.,	7 200	71-	3	
106		_	50	•	-		3	55	9	vai	Arg	Arg	GIU	Arg	Ата	Arg	Ата
107								33					60				
108		His	Pro	Ctre	Cve	720	Dro	mb	71-		~ 7	_	_				
109		65	Pro	Cys	Cys	Arg	70	IIII	Ala	Tyr	GIu	Asp	Glu	Val	Ser	Phe	Leu
110		0.5					70					75					80
111		λan	17-1	774 -	G	.	_				_						
112		Asp	Val	HIS	ser	Arg	Tyr	Hıs	Thr	Leu	Gln	Glu	Leu	Ser	Ala	Arg	Glu
						85					90					95	
113		_															
114		Cys	Ala	Cys													
115					100												
116																	
117	(2)	INFO	RMATI	ON F	OR S	EQ I	D NO	:3:									
118																	
119	(i) SEQUENCE CHARACTERISTICS:																
120	(A) LENGTH: 16 amino acids																
121	(B) TYPE: amino acid																
122	(C) STRANDEDNESS:																
123	(D) TOPOLOGY: linear																
124																	
125		(ii)	MOLE	CULE	TYP:	E: p	epti	de									
126						-	- -										
127																	
128		(ix)	FEAT	URE:													
129		•			E/KE	Y: Mo	odif:	ied-	eita								
130			(B)	LOC	ATIO	v 6		Luu .	3100								
131						VFORI	<i>የ</i> ልጥፐረ	N.	/not		\ \ \T\'\ 2						
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133																	
134		(xi)	SEOIT	en/or	DECC	ים ד סו	T-C->-	ana									
135		(111)	DEQUI	MCE	ומשם	-KIP	TOM:	SEC	5 TD	NO: 3	:						
136		Ser	G1 v 7	1 - 7	\~ T	3200 3			_	_							
137		1	Gly A	sia r	119 E		aa c	TA T	eu A			eu G	lu v	al S	Ser V	al S	er
138		_			5	•				1	.0				1	.5	
139																	
140	(2)	TATEOD	43 M T C														
141	(2)	INFOR	MATIC	IN FC	R SE	Q ID	NO:	4:									
141		123															
		(1)	SEQUE	NCE	CHAR	ACTE	RIST	ICS:									
143 144			(A)	LENG	TH:	10 a	mino	aci	ds								•
			(B)	TYPE	: am	ino	acid										
145						NESS											
146			(D)	TOPO	LOGY	: li	near										
147																	
148		(ii) N	OLEC	ULE	TYPE	: pe	ptid	e									
149																	
150																	

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151 152 153 154 155	<pre>(ix) FEATURE: (A) NAME/KEY: Modified-site (B) LOCATION: 1 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"</pre>
156 157 158	<pre>(ix) FEATURE: (A) NAME/KEY: Modified-site (B) LOCATION: 6</pre>
159 160	(D) OTHER INFORMATION: /note= "SERINE OR CYSTEINE"
161	
162	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
163	32 25 1611.
164	Xaa Cys Ala Gly Ala Xaa Glu Ala Ala Val
165	1 5 10
166	10
167	(2) INFORMATION FOR SEQ ID NO:5:
168	
169	(i) SEQUENCE CHARACTERISTICS:
170	(A) LENGTH: 23 amino acids
171	(B) TYPE: amino acid
172	(C) STRANDEDNESS:
173	(D) TOPOLOGY: linear
174	
175	(ii) MOLECULE TYPE: peptide
176	
177	
178	(ix) FEATURE:
179	(A) NAME/KEY: Modified-site
180	(B) LOCATION: 1
181	(D) OTHER INFORMATION: /note= "ANY AMINO ACID"
182	
183	(ix) FEATURE:
184	(A) NAME/KEY: Modified-site
185	(B) LOCATION: 2
186	(D) OTHER INFORMATION: /note= "ANY AMINO ACID"
187	
188	(ix) FEATURE:
189	(A) NAME/KEY: Modified-site
190	(B) LOCATION: 17
191	(D) OTHER INFORMATION: /note= "GLUTAMINE OR GLUTAMIC ACID"
192	1010
193	
194	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
195	
196	Xaa Xaa Val Glu Ala Lys Pro Cys Cys Gly Pro Thr Ala Tyr Glu Asp
197	1 5 10 15
198	
199 200	Xaa Val Ser Phe Leu Ser Val 20

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201 202	(2)	INF	ORMA	TION	FOR	SEQ	ID	NO : 6	:								
203 204 205 206 207 208		(i	(1	A) L B) T C) S		H: 1 ami DEDN	0 am no a ESS:	ino cid	CS: acid	s							
209 210 211 212 213		(ii	<pre>(ii) MOLECULE TYPE: peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:</pre>														
214 215		(xi)	SEÇ	QUENC	CE DI	ESCR:	IPTI	ON:	SEQ :	ID N	0:6:						
216 217		Tyı 1	His	5 Thi	. Let		ı Glı	ı Leı	ı Sei	r Ala		3					
218		_				5					10						
219	(2)	INFO	RMAT	CION	FOR	SEQ	ID N	IO : 7 :	:								
220						_											
221		(i)	SEÇ														
222									acid	ls							
223					PE:			id									
224 225					RAND												
225			(D) TO	POLO	GY:	line	ar									
227		(44)	MOT	EGII	- mv												
228		(11)	MOL	ECOL	E TY	PE:	prot	eın									
229																	
230																	
231		(xi)	SEO	UENC	E DE	SCRT	PTTO	N· s	EQ I	רא ע	. 7 .						
232		,				- 0111		D	DÓ I	D NO	. / .						
233		Met	Gln	Arg	Trp	Lvs	Ala	Ala	Ala	Len	Δla	Ser	17a 1	Leu	Carc	Cox	Ser
234		1		J	-	5				204	10	DCI	vaı	шец	Cys	15	ser
235																	
236		Val	Leu	Ser	Ile	Trp	Met	Cys	Arg	Glu	Gly	Leu	Leu	Leu	Ser	His	Arg
237					20				_	25	•				30	,	5
238																	
239		Leu	Gly	Pro	Ala	Leu	Val	Pro	Leu	His	Arg	Leu	Pro	Arg	Thr	Leu	Asp
240 241				35					40					45			_
242		7 l -	7 ~~~	T1.	7 J	3				_							
243		nia	50	тте	ита	Arg	ьeu	Ala	Gln	Tyr	Arg	Ala		Leu	Gln	Gly	Ala
244			50					55					60				
245		Pro	Asp	Ala	Met	Glu	T.e.11	Δνα	Glu	T 011	Πh ν	Пис	M	21.	a 1		_
246		65				u	70	A. y	GIU	⊔eu	THE	75	ırp	ата	GIĀ	Arg	
247							. •					, ,					80
248		Pro	Gly	Pro	Arg	Arg	Arg	Ala	Gly	Pro	Ara	Ara	Ara	Ara	Ala	Δra	Δla
249			=		-	85	_		- 4		90	3	3	9		95	-3±0
250																	